		Pog	No									Т				
		Reg. 1	10.													
		Question Paper Co	ode		12	2733	3									
		M.E. / M.Tech DEGREE EXA	AMI	NAT	IOI	NS,	AP	RII	<u>]</u> /]	MA	Y 2	024	1			
		First	Sem	este	r											
		М.Е - С	CAD/	CA	M											
	2	0PCDPC102 - COMPUTER AIDE	D T	001	LS F	OF	R M	AN	UF	AC	TU	RII	NG			
		Regulati	ions -	- 202	20											
Du	ration	: 3 Hours									Ma	x. l	Mai	ks:	100	ł
		PART - A (10 ×	< 2 =	20 I	Mar	ks)						М	larks	K – Level	, со)
1	Diffe	Answer AL erence between G code and M Code	L Qu	esti	ons								2	K2	СО	1
1. 2	List	List the Limitations of Collular Manufacturing							2	K1	CO	1				
2. 3	What is process planning?								2	K1	CO.	2				
<i>3</i> .	What is Variant Approach in $CAPP$?								2	K1	CO.	2				
5	Define FITS and LIMITS								2	K2	CO.	3				
6.	Defi	ne Tolerance Analysis.											2	K1	CO.	3
7.	Outline the process duplication Give Examples								2	K1	CO	4				
8.	What is Solid part model?							2	K1	CO	4					
9.	9. Define Physical Data.								2	K1	CO.	5				
10.	List	few RE Tools.											2	K1	CO.	5
		PART - B (5 × 1 Answer AL	13 = L Qu	65 I lestio	Mar ons	ks)										
11.	a)	Explain in detail about integration of	of CA	D/C	CAM	1.							13	K2	CO	1
	b)	Describe the features of a machini are particularly advantage for the us	ng c se of	entro NC.	e. W	/hy	ma	chir	ning	g ce	nter	S	13	K2	CO	1
12.	a)	Explain various programming langu O	ages R	use	d fo	r N	Сp	rogr	am	min	g.		13	K2	CO.	2
	b)	Explain in detail Computer Aided Q	Qualit	ty co	ontro	ol.							13	K2	CO.	2
13.	a)	Plot and explain the various toleran computer aided inspection with near O	nce s t ske R	syste tche	em a s.	nd	fits	sys	tem	us	ed i	n	13	K2	CO.	3
	b)	Explain Non Optical Inspection met	thod	in d	etail	•							13	K2	CO.	3
K1	– Rem	ember; K2 – Understand; K3 – Apply; K4 –	Analy 1	vze; K	K5 — 1	Eval	uate	; K6	- C	reate	2			12	273.	3

14.	a)	Indicate the various types CMM with neat diagram.		K2	<i>CO</i> 4
		OR			
	b)	Explain CSG and B-Rep Approach in Solid Modeling.	13	K2	<i>CO4</i>
15.	a)	Formulate and explain the various strategies employed in Reverse Engineering Data Management.	13	K2	CO5
		OR			
	b)	Describe how RE tools are used to evaluate Design of Experiments?	13	K2	CO5

PART - C (1 × 15 = 15 Marks)

- 16. a) Discuss the Criteria in Selecting CAPP System for a assembly shop. 15 K2 CO2 OR
 - b) Briefly explain the use of Tolerance Practices in Design, Drafting and ¹⁵ K2 CO3 Manufacturing for a casting process.